DMX512 Regenerator
model: DMX2DMX
technical data sheet

The DMX512 regenerator addresses issues associated with non-compliant DMX devices. Many lighting devices claim to accept DMX512 signals, but are unable to support the wide variety of timing parameters allowed by the DMX512 standard. The result is flickering, flashing, or erratic operation. The DMX regenerator addresses these issues by receiving any DMX512 signal, buffering the data, and then re-transmitting the data under a well-defined set of timing rules. In addition to this, the input is fully opto-isolated to provide protection and break potential ground loops.

We have found that most non-compliant devices can operate with a relaxed set of timing parameters. The output timing characteristics of the DMX regenerator are shown below:

Break time:	242 us	Mark after break time:	100 us
Number of slots:	512	Inter-byte time:	40 us
Mark before break time:	12 us	Refresh rate:	23 Hz

Alternate output timing characteristics can be factory configured to allow operation with nearly any device you might encounter.

The DMX regenerator has indicators for power, input signal, and a "MIMIC 1" LED which shows the level of the incoming DMX channel 1. This is useful for system troubleshooting and diagnostics. If you would like assistance in your application, please give us a call. We like to talk with our customers.

SPECIFICATIONS: All specifications meet or exceed DMX512 requirements

Input circuit:	EIA-485 receiver with 120 ohm termination resistor between +Data and -Data
Input signal:	0.2 volts minimum, 12 volts maximum
Output circuit:	EIA-485 driver
Connectors:	Gold plated 5 pin Neutrik D-1 Series (3 pin connectors or terminal blocks optional)
Input to output delay:	1/100 second average, 1/50 second maximum
Power input:	100 - 120 volts, 50/60 hertz, 12 watts (208 - 240 volt optional)
Color:	Top, bottom and sides: Silver hammer tone Front and back: Black
Size:	6.5" deep, 1.7" high, 6.5" wide
Weight:	2.6 pounds
Rack mount option:	For rack mounting, use optional rack kit model RK6-1

Doug Fleenor Design, Inc.

396 Corbett Canyon Road
Arroyo Grande, CA 93420
(805) 481-9599 voice and FAX
(888) 4-DMX512 toll free (888) 436-9512
web site: http://www.dfd.com
e-mail: info@dfd.com